

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Brassica oleracea*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(E)-HEX-2-EN-1-OL	Stem		0.08		--
0	(Z)-HEX-3-EN-1-OL	Stem		0.19		--
0	1-METHYLTHIOPENTAN-3-ONE	Stem		0.1		--
0	2(OR_3)-METHYLINDOLE	Stem		0.19		--
0	2,3-DIMETHYL-PYRAZINE	Plant				--
0	2,4,5-TRIMETHYL-THIAZOLE	Stem		0.11		--
0	2,4,5-TRIMETHYLOXAZOLE	Stem		0.02		--
0	2,5-DIMETHYL-6-VINYLPYRAZINE	Stem		0.19		--
0	2,5-DIMETHYL-PYRAZINE	Stem		0.38		--
0	2,5-DIMETHYLTHIOPHEN-3-CARBOXYALDEHYDE	Stem		0.02		--
0	2,6-DIMETHYL-PYRAZINE	Stem		0.57		--
0	2-ACETYL-4-METHYLTHIAZOLE	Stem		0.02		--
0	2-ACETYL-FURAN	Stem		0.02		--
0	2-ACETYL-PYRIDINE	Stem		0.02		--
0	2-ACETYLTHIAZOLE	Stem				--
0	2-ACETYLTHIOPHEN	Stem		0.02		--
0	2-ETHYL-FURAN	Stem		0.08		--
3	2-FURALDEHYDE	Stem		0.38		--
2	2-METHOXY-4-VINYL-PHENOL	Stem		0.17		--
0	2-METHYL-6-VINYLPYRAZINE	Stem		0.04		--
0	2-METHYL-BUTAN-1-OL	Stem		1.14		--
0	2-METHYL-BUTANAL	Stem		0.76		--
0	2-PENTYL-FURAN	Stem		0.06		--
0	2-PHENETHYL-ISOTHIOCYANATE	Stem		0.57		--
0	3(OR_5)-METHYLTHIOPHEN-2-CARBOXYALDEHYDE	Stem		0.38		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	3,5,5-TRIMETHYLCYCLOHEX-2-ENONE	Stem		0.06		--
0	3-(METHYLTHIO)-PROPYL-ISOTHIOCYANATE	Stem		3.61		--
0	3-INDOLYLACETONITRILE	Stem		0.57		--
0	3-METHYL-BUTAN-1-OL	Stem				--
0	3-METHYL-BUTANAL	Stem		0.02		--
0	3-METHYLBUTANONITRILE	Stem		0.04		--
0	3-PHENYLPROPANONITRILE	Stem		7.98		--
0	4-(METHYLTHIO)-BUTANONITRILE	Stem		27.6		--
0	4-(METHYLTHIO)-BUTYL-ISOTHIOCYANATE	Stem		6.08		--
0	4-METHYLTHIOPUTAN-2-ONE	Stem		0.17		--
0	5-(METHYLTHIO)-PENTANONITRILE	Stem		61.4		--
0	5-HYDROXY-GLUCOBRASSICIN	Tissue Culture				--
0	5-HYDROXY-GLUCOBRASSICIN	Sprout Seedling				--
0	5-METHOXY-GLUCOBRASSICIN	Tissue Culture				--
15	ALPHA-LINOLENIC-ACID	Stem	260.0	2889.0		--
14	ARGININE	Stem	1050.0	11667.0		--
112	ASCORBIC-ACID	Stem	620.0	6890.0	1.2602259509666862	--
0	ASH	Stem	7000.0	111110.0	1.8856973536198134	--
24	BENZALDEHYDE	Stem		0.02		--
53	BETA-CAROTENE	Stem	0.24	2.67	-0.848867975828728	--
0	BUTANEDIONE	Stem		0.02		--
28	CALCIUM	Stem	200.0	2665.0	-1.743501400177818	--
0	CARBOHYDRATES	Stem	59000.0	688900.0	-1.414170983098101	--
0	CARBON-DISULFIDE	Stem		0.19		--
23	CITRIC-ACID	Stem				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CYCLOHEXANE	Stem				--
2	CYSTINE	Stem	70.0	778.0		--
0	DECA-2-ONE	Stem		0.02		--
0	DI-(2-METHYLPROPYL)-PHTHALATE	Stem		0.1		--
0	DIBUTYL-PHTHALATE	Stem		1.52		--
2	DIMETHYL-DISULFIDE	Stem		11.21		--
2	DIMETHYL-SULFIDE	Stem		0.38		--
0	DIMETHYL-TRISULFIDE	Stem		47.5		--
0	DIOCTYL-PHTHALATE?	Stem		3.42		--
0	EICOSANE	Stem				--
0	EO	Stem		190.0	-0.485851745173221	--
0	ETHYL-METHYL-DISULFIDE	Stem		0.02		--
0	FAT	Stem	1000.0	11110.0	-1.4508583793989052	--
15	FIBER	Stem	1000.0	11110.0	-1.296031725728545	--
7	FUMARIC-ACID	Stem				--
1	GLUCOBRASSICIN	Tissue Culture				--
1	GLUCOBRASSICIN	Sprout Seedling				--
0	HENEICOSANE	Stem				--
0	HEPTA-2,4-DIENAL	Stem		0.04		--
0	HEPTANONITRILE	Stem		0.04		--
0	HEXADECAN-1-OL	Stem		0.57		--
5	HEXANAL	Stem		0.04		--
0	HEXANE	Stem		0.04		--
0	HEXANONITRILE	Stem		0.06		--
7	HISTIDINE	Stem	190.0	2111.0		--
15	INDOLE	Stem		1.33		--
6	IRON	Stem	4.0	44.0	-0.6545398138876424	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ISOLEUCINE	Stem	780.0	8667.0		--
75	KAEMPFEROL	Shoot		80.0	1.7121854289040663	--
0	KILOCALORIES	Stem	270.0	3000.0		--
2	LEUCINE	Stem	670.0	7445.0		--
0	LINALOL	Stem		0.08		--
0	LINALOL-OXIDE	Stem		0.06		--
27	LINOLEIC-ACID	Stem	200.0	2222.0		--
4	LYSINE	Stem	560.0	6222.0		--
65	MAGNESIUM	Stem	190.0	2110.0	-1.1184243746609566	--
15	MALIC-ACID	Stem				--
0	METHANETHIOL	Stem		0.02		--
15	METHIONINE	Stem	130.0	1445.0		--
0	METHYL-OCTANOATE	Stem				--
0	METHYL-PROPANOL	Stem		0.08		--
0	METHYL-PROPYL-SULFIDE	Stem		0.08		--
0	METHYL-PYRAZINE	Stem		0.08		--
13	MUFA	Stem	70.0	780.0		--
6	MYRISTIC-ACID	Stem				--
1	NEOGLUCOBRASSICIN	Tissue Culture				--
1	NEOGLUCOBRASSICIN	Sprout Seedling				--
39	NIACIN	Stem	4.0	44.0		--
0	NONADECANE	Stem				--
0	OCTADECANE	Stem				--
0	OCTAN-1-OL	Stem		0.02		--
18	OLEIC-ACID	Stem	70.0	780.0		--
13	PALMITIC-ACID	Stem	110.0	1220.0		--
2	PALMITOLEIC-ACID	Stem				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	PANTOTHENIC-ACID	Stem	1.6	18.0		--
0	PENT-1-EN-3-OL	Stem		0.04		--
0	PENTAN-1-OL	Stem		0.02		--
0	PENTANE	Stem		0.76		--
0	PHENYLACETONITRILE	Stem		0.19		--
7	PHENYLALANINE	Stem	390.0	4333.0		--
4	PHOSPHORUS	Stem	400.0	5110.0	1.9403763589789504	--
14	POTASSIUM	Stem	3500.0	38890.0	2.4970609485330573	--
0	PROTEIN	Stem	11000.0	188900.0	1.4142135623730951	--
4	PUFA	Stem	480.0	4335.0		--
0	PYRAZINE	Stem				--
3	PYRIDINE	Stem		1.52		--
176	QUERCETIN	Shoot		20.0	-0.6593174841787172	--
15	RIBOFLAVIN	Stem	0.2	2.2	-0.9061422578020815	--
0	SFA	Stem	130.0	1445.0		--
1	SODIUM	Stem	200.0	2222.0	2.185328983729152	--
8	STEARIC-ACID	Stem	10.0	110.0		--
0	TETRADECAN-1-OL	Stem		0.1		--
31	THIAMIN	Stem	0.5	5.5	-1.3665296611918556	--
0	THIOPHEN-2-CARBOXYALDEHYDE	Stem		0.04		--
0	THIOPHEN-3-CARBOXYALDEHYDE	Stem		0.04		--
4	THREONINE	Stem	490.0	5445.0		--
1	TOLUENE	Stem		0.08		--
0	TRICOSANE	Stem				--
0	TRIMETHYL-PYRAZINE	Stem		0.06		--
29	TRYPTOPHAN	Stem	100.0	1110.0		--
3	VALINE	Stem	500.0	5555.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	VINYLPYRAZINE	Stem				--
0	VIT-B-6	Stem	1.5	17.0		--
0	WATER	Stem	910000.0	921000.0	0.6202998314873419	--